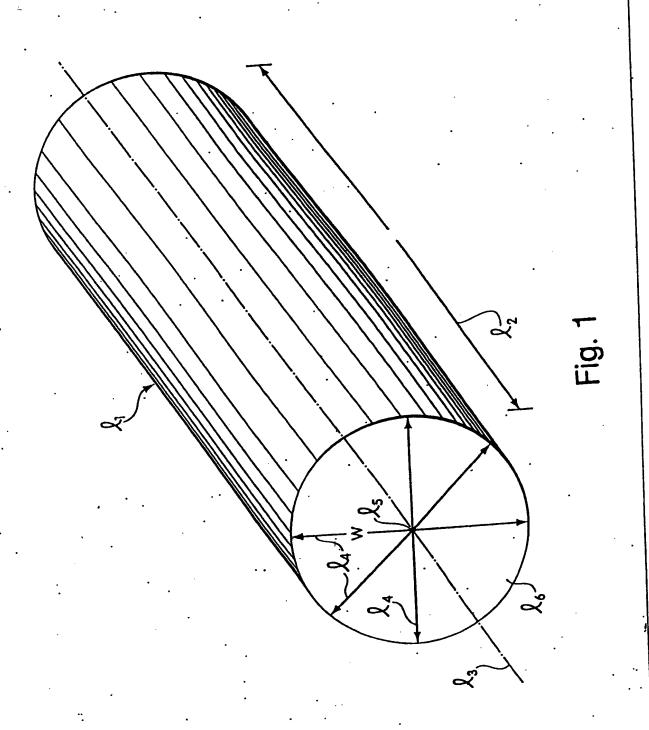
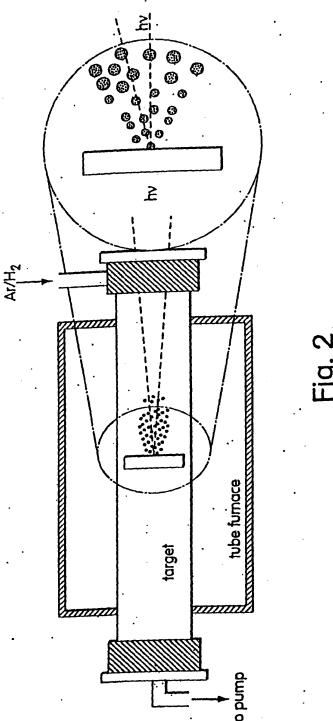
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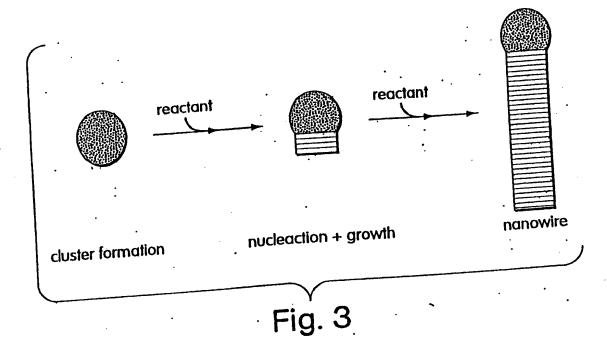
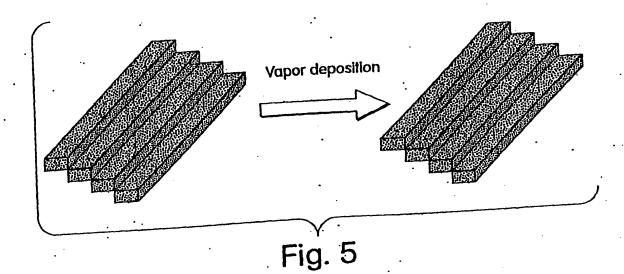


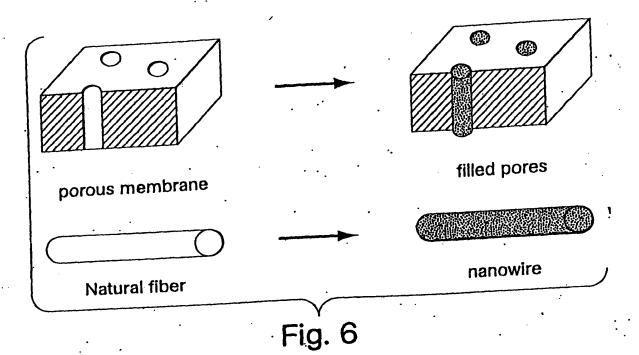
Fig. 4

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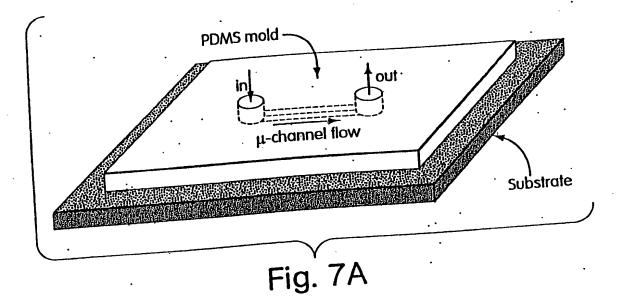
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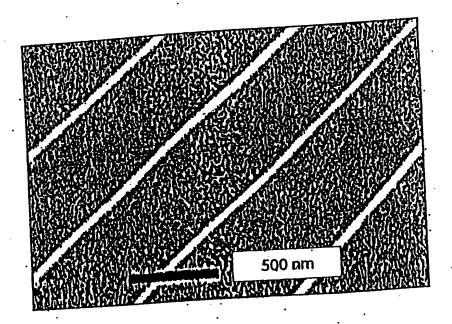


Fig. 7B

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## I. DIRECT GROWTH

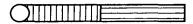
(a) DEFINE NANOCLUSTER CATALYST



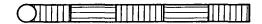
(b) INITIAL LCG SEMICONDUCTOR GROWTH



(c) SECOND LCG SEMICONDUCTOR GROWTH

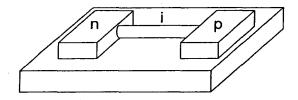


(d) REPEAT (b) OR (c) AS DESIRED



## II. POST-SYNTHESIS FUNCTIONALIZATION

(a) FABRICATE NANOWIRE DEVICE



(b) INTRODUCE DOPANTS BY ANNEALING

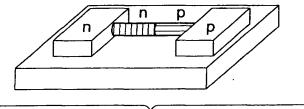
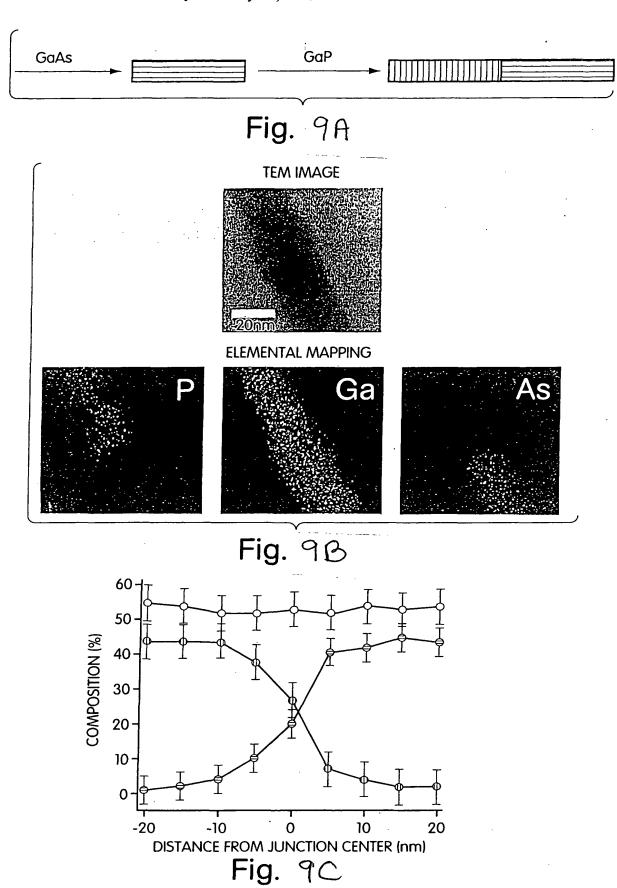


Fig. 8

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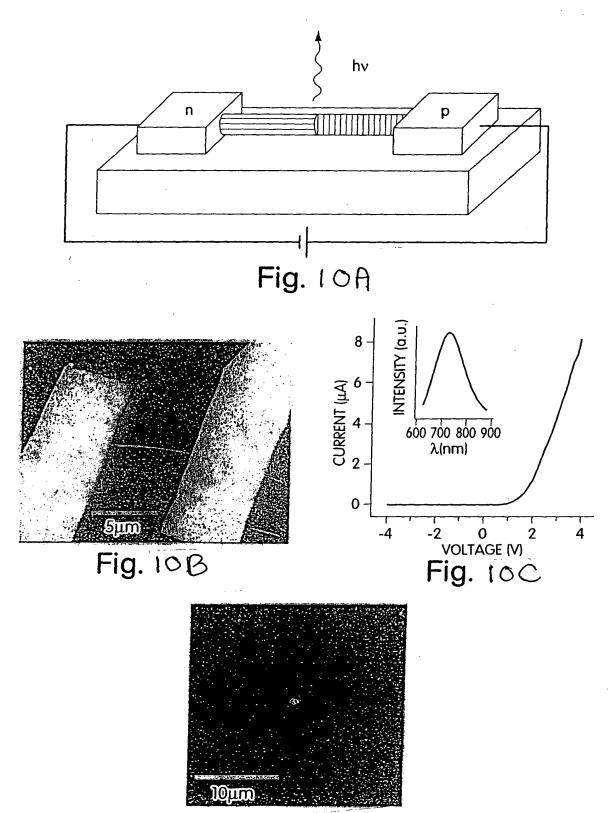
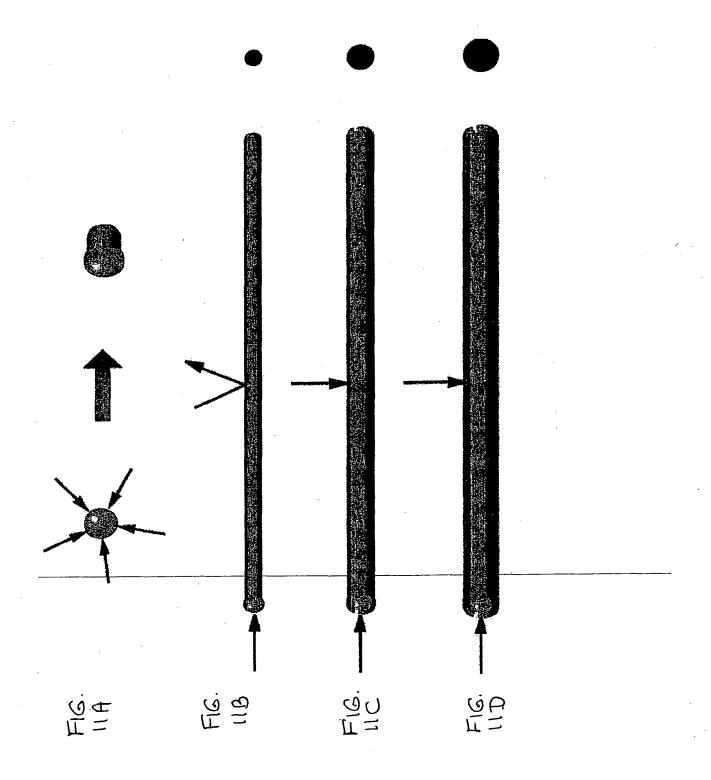


Fig. 100

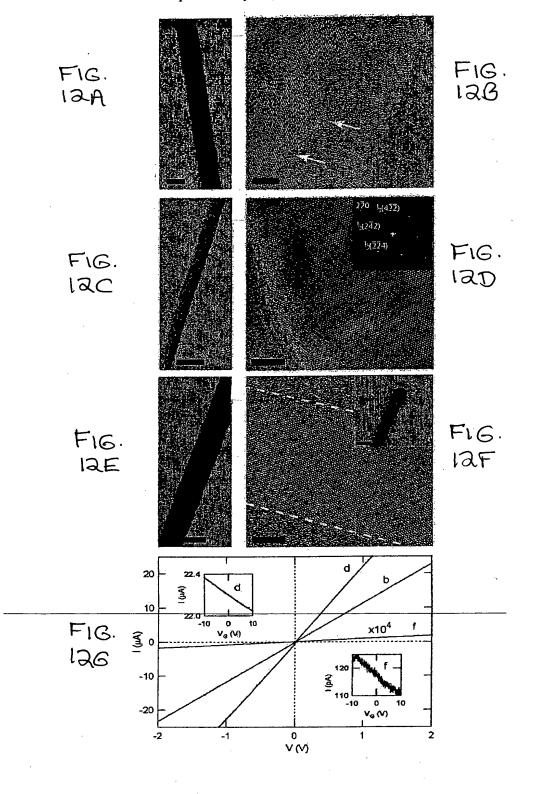
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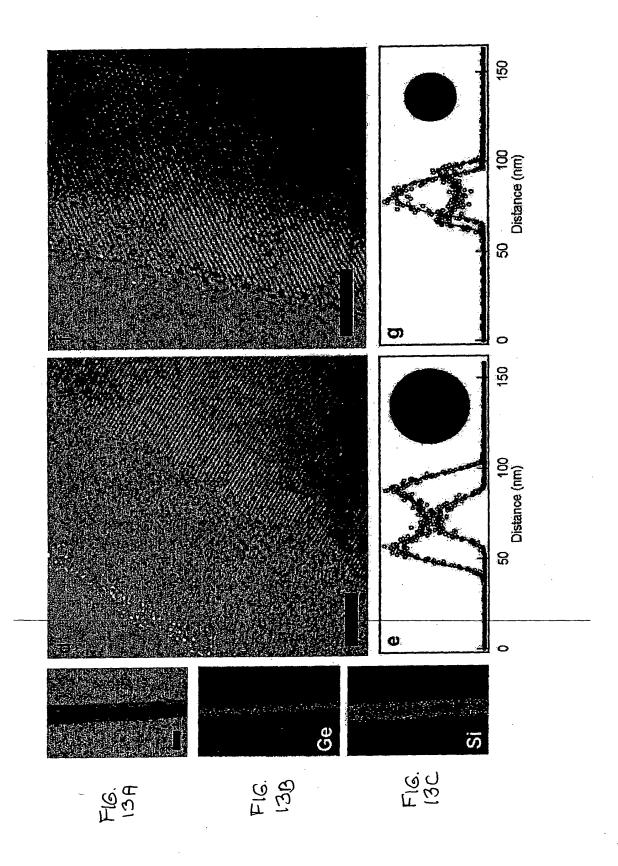
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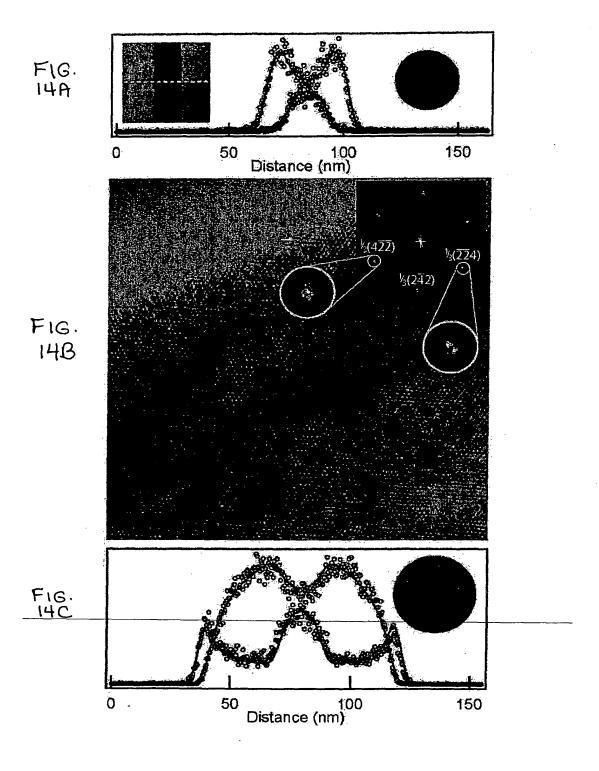
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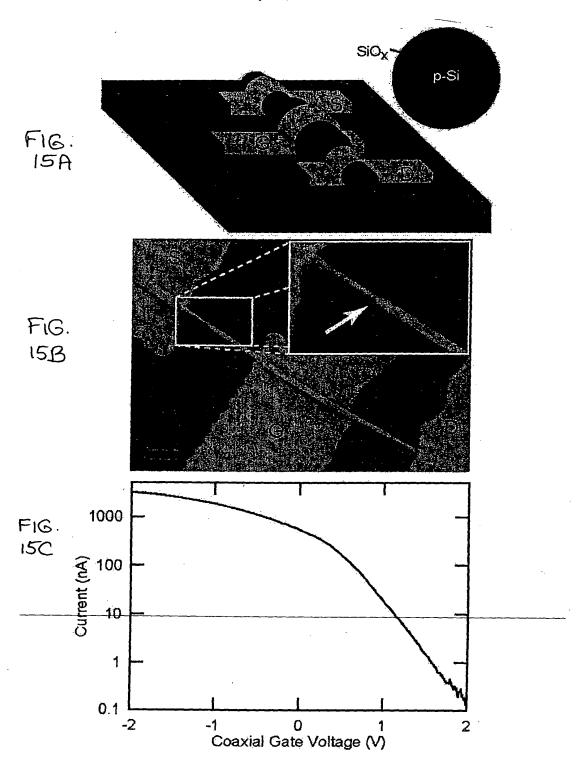
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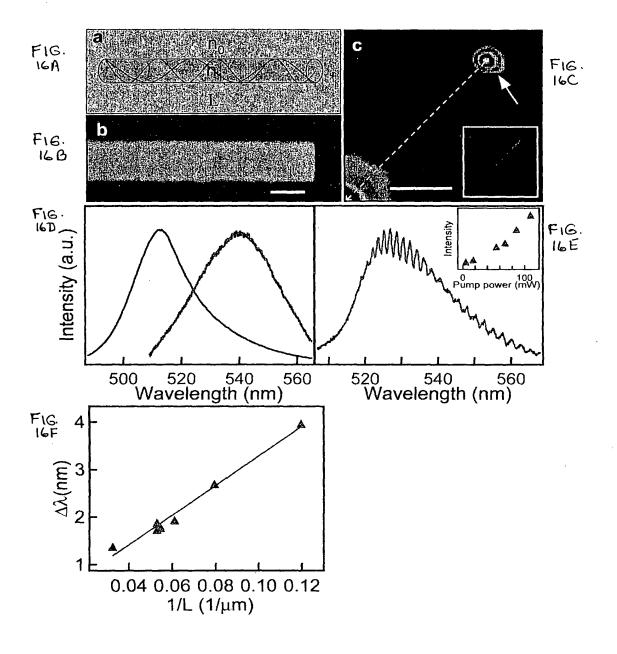
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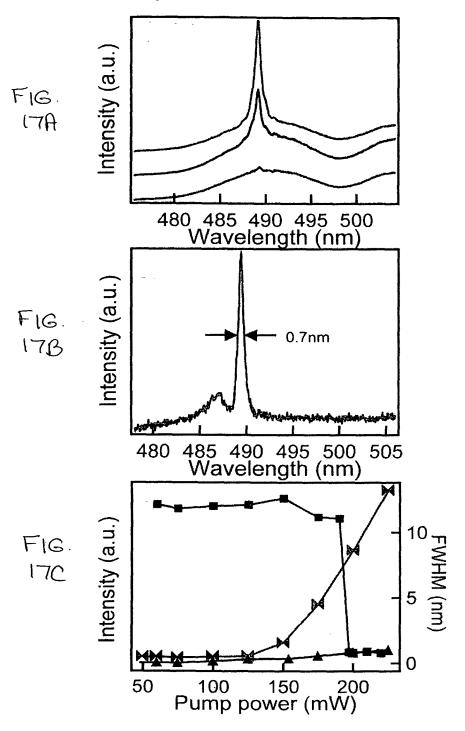
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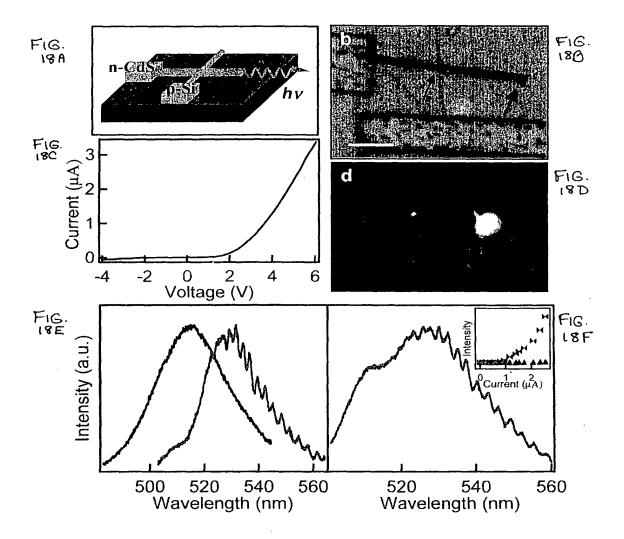
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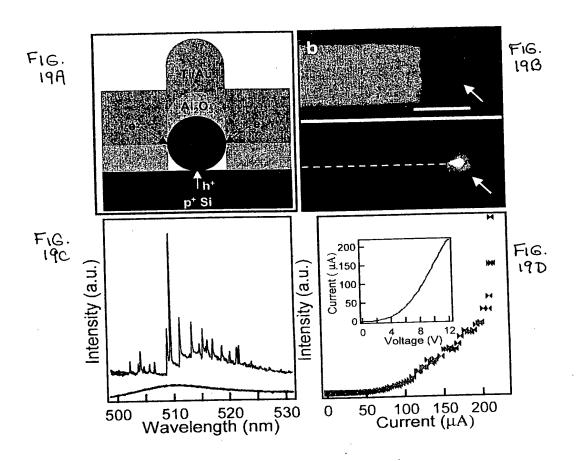
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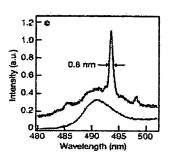
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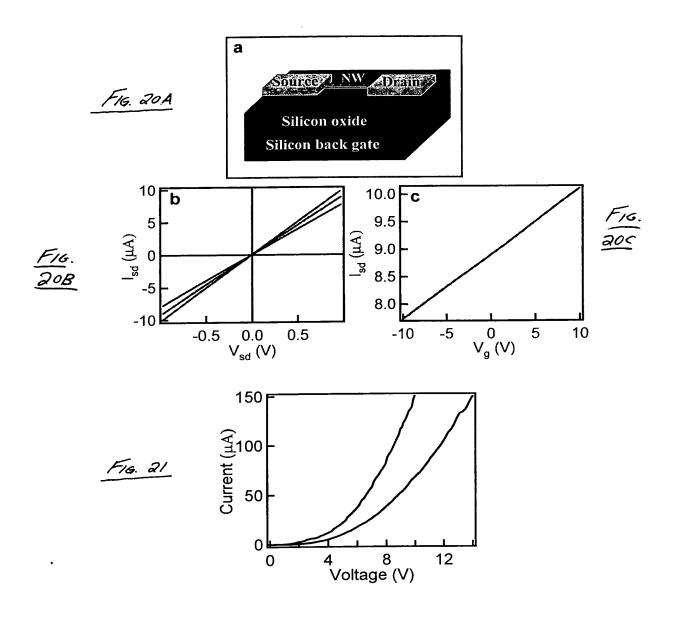
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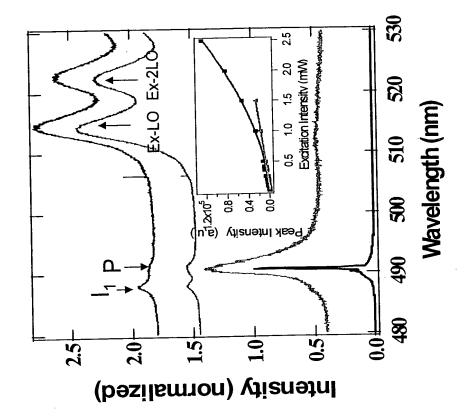
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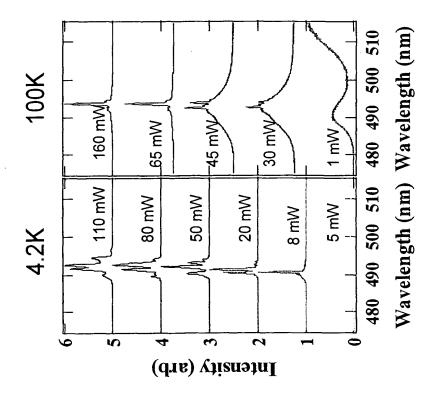
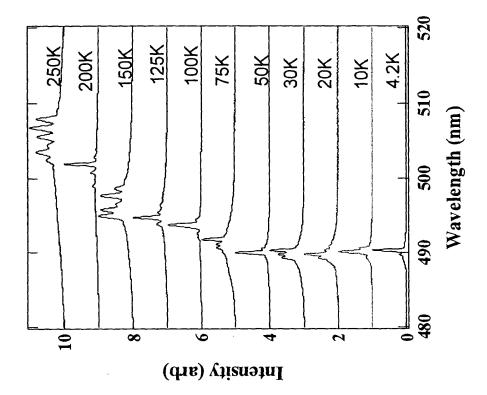


Fig. 22B

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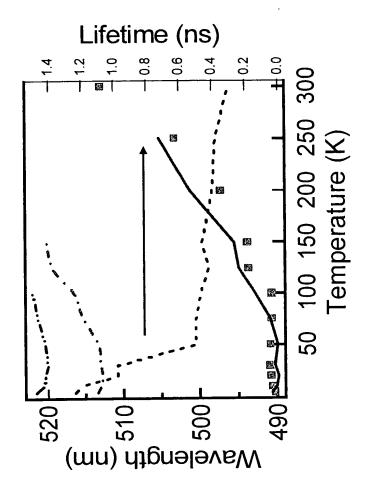


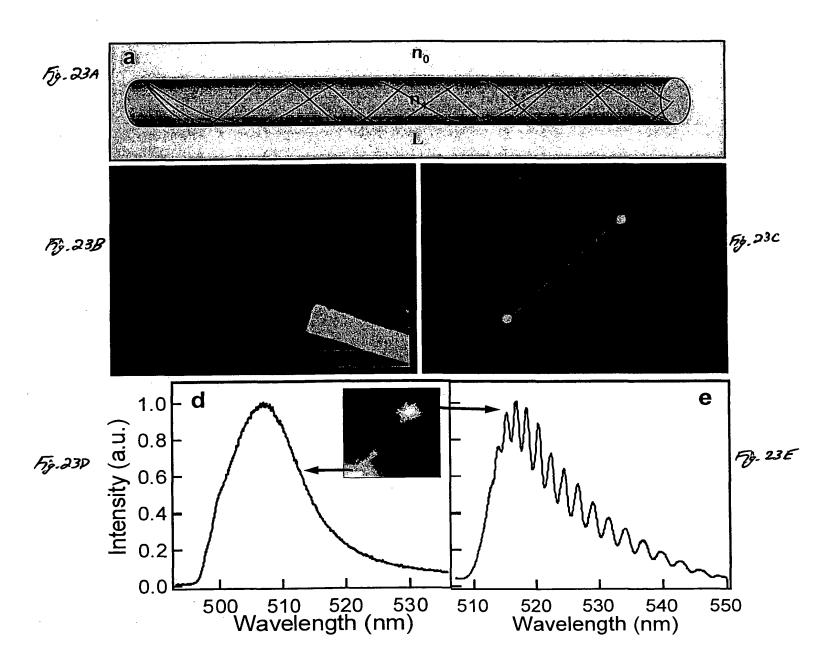
Fig. 32D

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